

DERIVING A MORE ACCURATE ESTIMATE FROM PREDICTION DATA IN  
CLOSED LOOP TRANSMIT DIVERSITY MODES

Abstract of the Disclosure

5           Prediction of a future state of a channel from common pilot channel signals  
transmitted from a transceiver (e.g., a base station) may be formed at a mobile user  
equipment to control future transmission patterns of the transceiver at a specified time.  
The matching accuracy of the future transmission patterns to the channel may be  
improved by adaptively calculating channel prediction terms from past and present  
10 channel estimates. Using channel prediction terms, a wireless communication system  
with the base station having antennas operate in a closed loop transmit diversity mode,  
and a channel controller application at the mobile user equipment may select best antenna  
transmission characteristics for active antennas of the base station.